

# cnPilot e430W Indoor

802.11ac Wave 2, Indoor wall plate



The cnPilot™ e430W Enterprise class Indoor Wall Plate access point supporting 802.11ac Wave 2 standards based beamforming, is perfect for hotels and resorts (Hospitality), multi-dwelling units (MDUs) or just about any place indoor that needs a discrete wall mounted AP with multiple GigE ports to drive Indoor Wi-Fi and wired port network access managed

## CONTROLLER MANAGED + AUTONOMOUS

Managed by Cambium's cnMaestro™ cloud controller or On-premises controller, the cnPilot e430W management includes:

- Zero touch onboarding • Inventory tracking • Monitoring
- Configuration • Dashboard views with Alarms • Mass upgrade
- Troubleshooting • wired port splash page access

## CONTROLLER-LESS ROAMING. POWERFUL SIMPLICITY

The e430W supports seamless roaming for up to 1,000 clients without needing a controller in the network. Hotspot portal hosting on the AP itself offers controller-less simplicity.

## MONETIZE: VOUCHERS. SOCIAL LOGIN

Monetize your Wi-Fi service: cnMaestro's Guest access feature supports splash page hosting, social login and payment gateway for wired and wireless clients. Built-in power packed features available right on the controller. These features along with the ability to create *time*, *rate* and *volume* limited traffic profiles along with vouchers for temporary guest access makes the e430W ideal for hotels, coffee shops, campgrounds, and office guest Wi-Fi.

## SERVICE AWARE WLANS. BETTER USER EXPERIENCE

Nothing is more frustrating than connecting to an Access point, but not getting to the Internet because the WAN link is down.

## INDOOR/OUTDOOR WI-FI MESH. FLEXIBILITY

Indoor meshing across multiple e430Ws or Indoor/Outdoor meshing across the e430W Indoor and an Outdoor Cambium APs (like the e500) offers a convenient way to easily expand Wi-Fi coverage without wires.

## COVERAGE, CAPACITY. SPEED

The e430W packs strong transmit power and the flexible controls needed to control Transmit power for high density deployments. Throughput management via *Airtime fairness*, increased performance from *Automatic channel scanning (ACS)*, and higher client device speeds from *Band steering* ensure your e430W network can adapt to the dynamics of ever changing client profiles. Planned DFS certification ensures ability to use more of the 5 GHz channels where DFS restrictions apply.

## HIGH DENSITY, HIGHLY AVAILABLE

A capacity of 256 max concurrent client associations, and 16 SSIDs, along with dual on-board Active/Standby memory banks ensure the e430W combines high density with high availability.

## LOW TOTAL COST OF OPERATIONS (TCO) LICENSE FREE

The e430W comes with option for a free cloud or virtual software controller, with no license fees. No hidden charges. Affordable. High quality.

## SPECIFICATIONS

### ACCESS POINT SPECIFICATIONS

Standards	IEEE 802.11a/b/g/n/ac Wave 2 Others: 802.11 h/d/r/u/w/	Ethernet Interfaces	Four (4) x 1 Gig E (10/100/1000 Mbps) shielded RJ45 ports. 2 x pass-through shielded RJ45 ports
MIMO Streams	2x2 MU-MIMO streams.	Frequency bands	2.4 GHz: 2400-2484 MHz 5 GHz: 5150-5850 MHz with DFS band support*
Concurrent Clients	256	Power Source (In and Out)	• PoE In: 802.3at compliant. PSE out port is enabled. • PoE In: 802.3af compliant: PSE out port is disabled • Auxiliary 48Vdc input power jack (DC input)
Max Data Rates	1.3 Gbps. 867 Mbps (5 GHz), 400 Mbps (2.4 MHz)	Power Consumed	12.95 W (max)
SSID	16 SSIDs across 2 radios	Dimensions	145 x 90 x 40 mm
Max TX Power	22 dBm at 2.4 GHz and 21 dBm at 5 GHz	Weight	384 grams (0.384kg)
Antenna gain	3 dBi (2.4 GHz), 4 dBi (5 GHz)	Temperature	0° C to + 40° C
Multi-Hop Mesh	Yes. Supported on all cnPilot Indoor (e.g. e430W) & Outdoor access points. Mesh auto-recovery supported	LED	Single LED window with tri-color LED
Polarization	Dual-linear	Physical Lock	Kensington lock slot
Antenna Coverage	Omni (360°)		

### WI-FI FEATURES

Controller modes	<ul style="list-style-type: none"> <li>• Autonomous Controller-less operations (E.g.: roaming)</li> <li>• Cloud Managed</li> <li>• On-premise virtualized controller</li> </ul>	ACS:	Automatic Channel Selection. Run at start or periodically
Secure WLAN	WPA-TKIP, WPA2 AES, 802.1x 802.11w (Protected Management Frames)	NAT	Network Address Translation. Yes
Hotspot 2.0	Yes	DHCP Server	Yes
Built-in Captive Portal/ Guest Access	<ul style="list-style-type: none"> <li>• Wired &amp; wireless clients</li> <li>• Rate/Time/Quota control</li> <li>• Redirection to external RADIUS Server.</li> <li>• Active Directory Integration</li> </ul>	Firewall	Yes. NAT logging
Authentication	Secure Web page, RADIUS based 802.1x including EAP-SIM/AKA, EAP-PEAP, EAP-TTLS, and EAP-TLS MAC authentication (local database or External RADIUS server)	ACL, DNS-ACL	Yes. L2, L3 or DNS based access control
Accounting	Yes. Supports RADIUS based accounting to multiple AAAs	Band Steering	Yes
Scheduled SSID	Turn SSID ON/OFF on a daily/weekly/time of day basis	Airtime Fairness	Yes
VLAN	Dynamic VLAN assignment from RADIUS server. VLAN per SSID per user, VLAN load balancing	Client Isolation	Yes
Data Limiting	Dynamic rate limiting of client traffic per SSID & per client	Meshing	Multi-hop meshing supported (3)
Subscriber QoS	WMM	Tunneling	• L2TP • L2oGRE • PPPoE
Controller-Less Fast Roaming	Yes. 802.11r, Opportunistic Key Caching, Enhanced roaming Disconnect for sticky clients	Tools	<ul style="list-style-type: none"> <li>• Packet capture</li> <li>• Sniffer</li> <li>• IP connectivity</li> <li>• Wi-Fi analyzer</li> <li>• Tech support (logs)</li> </ul>
		Services	NTP server config Syslog servers SNMP traps support DNS proxy cnPilot's critical resource service awareness feature reacts to the health of an external Gateway or AAA and turns SSID ON/OFF
		APIs	Presence Locationing API
		Certifications	<ul style="list-style-type: none"> <li>• FCC, ETSI, CE</li> <li>• EN 60601-1-2 (Medical EMC)</li> <li>• UL2043 Plenum rated</li> </ul>

### cnMaestro: WI-FI CONTROLLER

Cloud & On-Premises	Available in the Cloud or as a downloadable VMware® image (On-premises)	Managed Services Platform	Manage multiple customer accounts. Customized portal vies
Multi-admin Role based Access control	Manage admin privileges by monitor or mix of monitor and set configuration capabilities	Key Stats Monitoring	7 day historic stats
Troubleshooting	Single screen wireless view, showing Wireless backhaul, Access point & clients	Portal Hosting	Setup Hotspot portals segmented by SSIDs
Frictionless On-Boarding	Secure large scale bulk onboarding Zero touch bulk configuration and provisioning	Voucher	Time and Rate limited Guest access portals with Vouchers for 1,000 client devices
Device Inventory	Inventory tracking and reporting	Social Login	Facebook, Google
Monitoring	Alarms and events management – Critical/Major/Minor Statistics graphs and table display Alarm traffic light display	Site Grouping	Group sets access points for convenient management
		Client Insight	Shows client history with aggregate client manufacturer views
		Software Upgrade	Ability to upgrade multiple WiFi devices at a time

Dual band 2x2 802.11ac Wave 2

MU-MIMO + BLE

22 dBm (2.4 GHz),

Kensington lock

SW controlled Tri-color LED



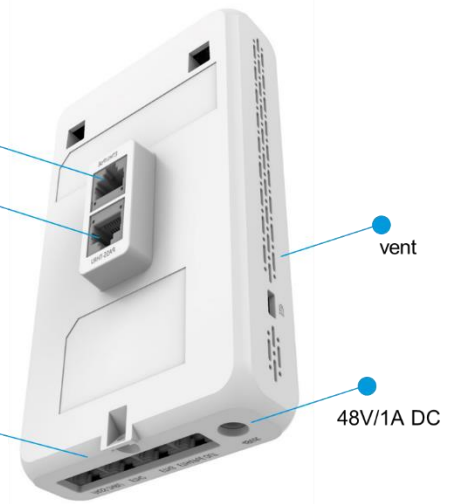
Eth1/In-wall Unit

Pass-thru port

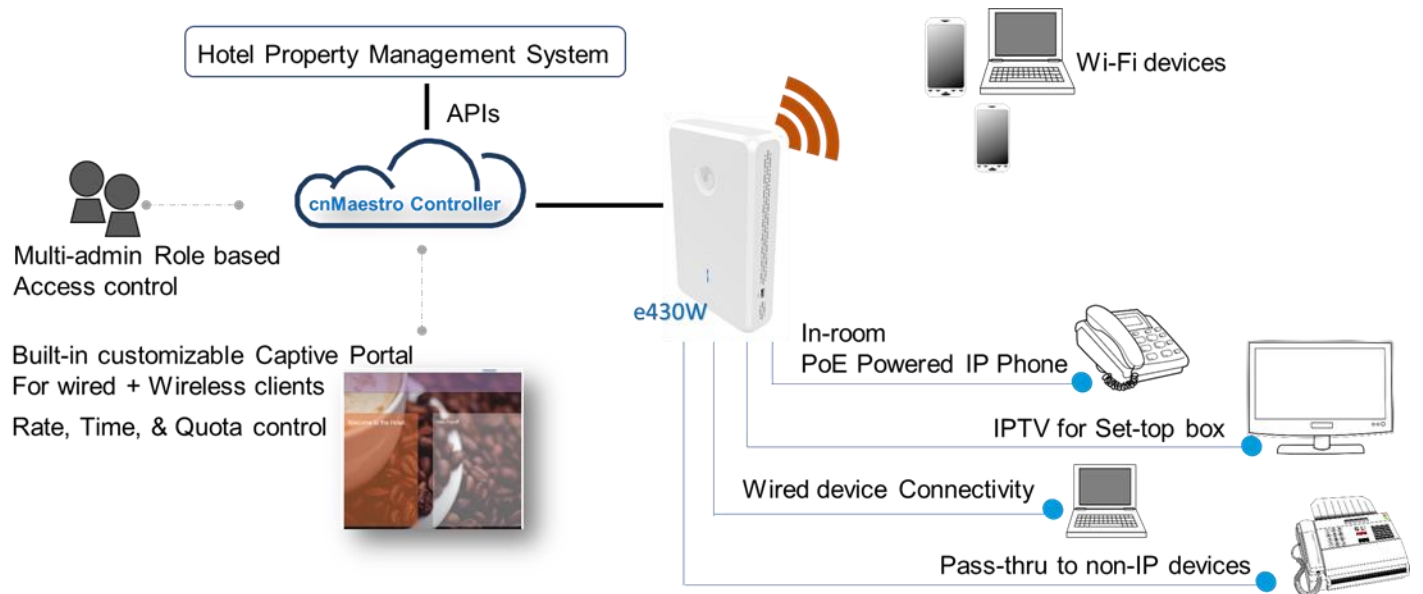
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Eth2, Eth3 PoE ports  
Eth4 PoE-out ports

48V/1A DC



### THE ADAPTIVE CNPILOT NETWORK



### e430W Front & Back views

**Regulatory Model Number (common to all SKUs): cnPilot e430W Indoor**

Sales part #	Description
PL-E430W00A-US	e430W Indoor (FCC) 802.11ac wave 2, 2x2, Wall plate WLAN AP with single-gang wall bracket
PL-E430W00A-EU	e430W Indoor (EU) 802.11ac wave 2, 2x2, Wall plate WLAN AP with single gang wall bracket
PL-E430W00A-RW	e430W Indoor (ROW) 802.11ac wave 2, 2x2, Wall plate WLAN AP with single gang wall bracket
PL-E430W00A-SL	e430W Indoor (Sri Lanka) 802.11ac wave 2, 2x2, Wall plate WLAN AP with single-gang wall bracket
PL-E430W00A-IL	e430W Indoor (Israel) 802.11ac wave 2, 2x2, Wall plate WLAN AP with single-gang wall bracket

Discover more information on cnPilot at: <http://community.cambiumnetworks.com/>  
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